

In the Claims:

1. (currently amended) ~~Device~~ A device for transdermal administration of active substances, ~~having comprising~~ comprising a back layer and an active substance-containing reservoir connected to said back layer, wherein said device has a thereto, characterized ~~in that the~~ skin-facing contact surface on a side facing the skin, said skin-facing contact surface of the device has comprising a plurality of needle-shaped microprotrusions ~~which are suitable~~ for penetrating into the skin and ~~[[whose]]~~ having a longitudinal contour having at least ~~[[has]]~~ one or more undercuts undercut for rendering that render extraction of the plurality of protrusions from the skin more difficult and ~~[[fix]]~~ for fixing the device on the skin.

2. (currently amended) ~~Device~~ The device according to claim 1, wherein said ~~characterised in that it has a~~ plurality of microprotrusions ~~wherein said structures~~ are configured as a plurality of barbs, and wherein each of said microprotrusions comprises at least having one barb or more of such barbs.

3. (currently amended) ~~Device~~ The device according to ~~claims~~ claim 1, wherein said ~~characterised in that it has a~~ plurality of microprotrusions ~~[[which]]~~ are helically configured and rotatably arranged, ~~and which thereby, upon application of a rotating movement, to facilitate penetration into the skin and effect to affect~~ anchorage in the skin by applying a rotating movement onto said plurality of microprotrusions.

4. (currently amended) ~~Device~~ The device according to claim 3, wherein ~~characterised in that the rotary drive is effected by micromechanical actuators cause~~ the rotating movement of said rotatable microprotrusions.

5. (currently amended) ~~Device~~ The device according to claim 1, wherein ~~any one of the preceding claims, characterized in that the~~ at least two of said microprotrusions, ~~or at least several of the microprotrusions~~, are fixed in the active substance-containing reservoir.

6. (currently amended) ~~Device~~ The device according to claim 1, wherein ~~any one of the preceding claims, characterised in that the~~ at least two of said microprotrusions, ~~or at least several of the microprotrusions~~, are connected with the back layer.

7. (currently amended) ~~Device~~ The device according to claim 1, wherein ~~any one of the preceding claims, characterized in that the~~ at least two of said microprotrusions, ~~or at least several of the microprotrusions~~, are configured as hollow needles.

8. (currently amended) ~~Device~~ The device according to claim 1, wherein said device comprises an adhesive polymer matrix ~~any one of the preceding claims,~~ ~~characterised in that~~ on the skin side it ~~has an adhesive polymer matrix which is~~ preferably arranged ~~such that it is~~ coextensive with the plane of the microprotrusions.

9. (currently amended) ~~Device~~ The device according to claim 8, wherein ~~characterised in that~~ the microprotrusions protrude from the plane of the polymer matrix layer by, ~~on average,~~ less than 300 µm on average.

10. (currently amended) ~~Device~~ The device according to claim ~~[[8 or]]~~ 9, wherein ~~characterised in that~~ the adhesive polymer matrix also at the same time constitutes the active substance reservoir and contains at least one ~~or more~~ active substances substance, optionally in combination with at least one ~~or more~~ auxiliary agents agent.

11. (currently amended) ~~Device~~ The device according to claim 1, wherein said device ~~any one of the preceding claims, characterised in that it~~ contains at least one ~~or more~~ active substances substance which ~~[[is/are]]~~ is selected from the ~~groups~~ group consisting of ~~[[the]]~~ peptides, proteins, oligonucleotides and polynucleotides.

12. (currently amended) ~~Device~~ The device according to claim 1, wherein said device ~~any one of the preceding claims, characterised in that it~~ contains at least one ~~or more~~ vaccines preferably vaccine selected from the group ~~comprising~~ consisting of bacteria, viruses, bacterial toxoids, oligonucleotides, ~~[[and]]~~ polynucleotides and as well as genetically engineered antigens.

13. (currently amended) ~~[[Use]]~~ A use of a device according to claim 1 ~~any one of the preceding claims~~ for transdermal administration of active substances or vaccines to a human or animal body.

14. (currently amended) ~~[[Use]]~~ The use according to claim 13, wherein ~~characterised in that~~ the active substances or vaccines are selected from the group ~~comprising~~ consisting of peptides, proteins, oligonucleotides, polynucleotides, bacteria, viruses, inactivated viruses, bacterial toxoids, oligonucleotides, ~~[[and]]~~ polynucleotides and as well as genetically engineered antigens.